

IN THE SPECIFICATION:

Page 13, lines 16-28 and continuing on page 14, lines 1-11, replace as follows:

-- As with the forward link geometry, the satellites 16 will amplify the signals (links) 40 received from the users 18 and re-radiate the signals 42 toward the hub 12. The hub 12 can receive signals 42 independently, but simultaneously from the satellites 16, and will add the signals 42 from different satellites coherently in the post-processor 44 as illustrated in Figure 4.

A1
The signal flows on the block diagram shown in Figure 4 illustrate the receive function of the post-processor [[40]] 44 and the hub 12. The signal flows are reversed from the corresponding ones in Figure 2. Therefore the receive process will not be reiterated in detail. However, the links 42 from the satellites 16 to the hub 12 are received at the beamformer 38 and then transferred to the receiver and down converters 46 before the signals are separated. The signals are separated depending upon the user from which they are received, as generally indicated by reference number 48, and then sent to the specific user 1 through H, as generally indicated by reference number 50. It should be understood that both the receive and transmit functions are a necessary part of the pathlink calibration and user positioning.--

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Page 21, lines 13-27, replace as follows:

A2
--The impact of the above detailed two fringe pattern parameters is summarized as follows. First, the condition for coherence of the signals received by (transmitted from) the two elements 106, 108 of the interferometer requires the position of the user [[100]] 110 to be known (and corrected) to within a tolerance which is much less than λ_{IF} . Conversely, the signals are essentially incoherent for some other user who is displaced from the position of the intended user [[100]] 110 by a distance of more than Δx . Signals received from users positioned between these two locations are partially coherent. These concepts for the case of a representative cluster at geosynchronous altitude based on UHF Follow-On are illustrated graphically in Figure 7.--